

IN THE CLAIMS:

Claims 1-3. (canceled)

Claim 4. (Original) A method for stimulating dengue virus specific immune response, which comprises administering to an individual an immunologically sufficient amount of two or more attenuated viruses chosen from the group consisting of dengue-1, dengue-2, dengue-3, and dengue-4, in a physiologically acceptable carrier.

Claim 5. (Original) The method of claim 4, wherein the attenuated virus is administered parenterally.

Claim 6. (Original) The method of claim 4, wherein the attenuated virus is administered intranasally.

Claims 7-16. (Canceled)

Claim 17. (Previously submitted) The method of claim 4, which comprises administering to an individual an immunologically sufficient amount of two or more attenuated viruses chosen from the group consisting of a dengue-1 (DEN-1) virus having the sequence of DEN-1 strain 45AZ5 PDK-27 having the ATCC accession number PTA-4810, a dengue-2 (DEN-2) virus having the sequence of DEN-2 strain S16803 PDK-50 having the ATCC accession number VR-2653, a dengue-3 (DEN-3) virus having the sequence of DEN-3 strain CH53489 PDK-20 having the ATCC accession number VR-2647, and a dengue-4 (DEN-4) virus having the sequence of DEN-4 strain 341750 PDK-6 having the ATCC accession number PTA-4811, and a physiologically acceptable vehicle.

Claim 18. (Previously submitted) The method of claim 4, which comprises administering to an individual an immunologically sufficient amount of a dengue-1 (DEN-1) virus having the sequence of DEN-1 strain 45AZ5 PDK-27 having the ATCC

accession number PTA-4810, a dengue-2 (DEN-2) virus having the sequence of DEN-2 strain S16803 PDK-50 having the ATCC accession number VR-2653; a dengue-3 (DEN-3) virus having the sequence of DEN-3 strain CH53489 PDK-20 having the ATCC accession number VR-2647, and a dengue-4 (DEN-4) virus having the sequence of DEN-4 strain 341750 PDK-6 having the ATCC accession number PTA-4811, and a physiologically acceptable vehicle.

Claim 19. (Previously submitted) The method of claim 4, which further comprises administering an adjuvant to enhance the immune response.

Claim 20. (Previously submitted) The method of claim 4, wherein the attenuated viruses administered are formulated in a dose of 10^2 to 10^6 PFU/ml.

Claim 21. (Previously submitted) The method of claim 4, wherein the attenuated viruses are administered subcutaneously.

Claim 22. (Previously submitted) The method of claim 4, which comprises administering to an individual an immunologically sufficient amount of two or more attenuated viruses chosen from the group consisting of a dengue-1 (DEN-1) virus having the sequence of DEN-1 strain 45AZ5 PDK-27 having the ATCC accession number PTA-4810, a dengue-2 (DEN-2) virus having the sequence of DEN-2 strain S16803 PDK-50 having the ATCC accession number VR-2653, a dengue-3 (DEN-3) virus having the sequence of DEN-3 strain CH53489 PDK-20 having the ATCC accession number VR-2647, and a dengue-4 (DEN-4) virus having the sequence of DEN-4 strain 341750 PDK-20 having the ATCC accession number VR-2652, and a physiologically acceptable vehicle.

Claim 23. (Previously submitted) The method of claim 4, which comprises administering to an individual an immunologically sufficient amount of a dengue-1 (DEN-1) virus having the sequence of DEN-1 strain 45AZ5 PDK-27 having the ATCC accession number PTA-4810, a dengue-2 (DEN-2) virus having the sequence of DEN-2

strain S16803 PDK-50 having the ATCC accession number VR-2653, a dengue-3 (DEN-3) virus having the sequence of DEN-3 strain CH53489 PDK-20 having the ATCC accession number VR-2647, and a dengue-4 (DEN-4) virus having the sequence of DEN-4 strain 341750 PDK-20 having the ATCC accession number VR-2652, and a physiologically acceptable vehicle.

Claim 24. (Previously submitted) The method of claim 4, which comprises administering to an individual an immunologically sufficient amount of two or more attenuated viruses chosen from the group consisting of a dengue-1 (DEN-1) virus having the sequence of DEN-1 strain 45AZ5 PDK-20 having the ATCC accession number VR-2648, a dengue-2 (DEN-2) virus having the sequence of DEN-2 strain S16803 PDK-50 having the ATCC accession number VR-2653, a dengue-3 (DEN-3) virus having the sequence of DEN-3 strain CH53489 PDK-20 having the ATCC accession number VR-2647, and a dengue-4 (DEN-4) virus having the sequence of DEN-4 strain 341750 PDK-20 having the ATCC accession number VR-2652, and a physiologically acceptable vehicle.

Claim 25. (Previously submitted) The method of claim 4, which comprises administering to an individual an immunologically sufficient amount of a dengue-1 (DEN-1) virus having the sequence of DEN-1 strain 45AZ5 PDK-20 having the ATCC accession number VR-2648, a dengue-2 (DEN-2) virus having the sequence of DEN-2 strain S16803 PDK-50 having the ATCC accession number VR-2653, a dengue-3 (DEN-3) virus having the sequence of DEN-3 strain CH53489 PDK-20 having the ATCC accession number VR-2647, and a dengue-4 (DEN-4) virus having the sequence of DEN-4 strain 341750 PDK-20 having the ATCC accession number VR-2652, and a physiologically acceptable vehicle.

Claim 26. (Previously submitted) The method of claim 4, which comprises administering to an individual an immunologically sufficient amount of two or more attenuated viruses chosen from the group consisting of a dengue-1 (DEN-1) virus having the sequence of DEN-1 strain 45AZ5 PDK-20 having the ATCC accession number VR-

2648, a dengue-2 (DEN-2) virus having the sequence of DEN-2 strain S16803 PDK-50 having the ATCC accession number VR-2653, a dengue-3 (DEN-3) virus having the sequence of DEN-3 strain CH53489 PDK-20 having the ATCC accession number VR-2647, and a dengue-4 (DEN-4) virus having the sequence of DEN-4 strain 341750 PDK-6 having the ATCC accession number PTA-4811, and a physiologically acceptable vehicle.

Claim 27. (Previously submitted) The method of claim 4, which comprises administering to an individual an immunologically sufficient amount of a dengue-1 (DEN-1) virus having the sequence of DEN-1 strain 45AZ5 PDK-20 having the ATCC accession number VR-2648, a dengue-2 (DEN-2) virus having the sequence of DEN-2 strain S16803 PDK-50 having the ATCC accession number VR-2653, a dengue-3 (DEN-3) virus having the sequence of DEN-3 strain CH53489 PDK-20 having the ATCC accession number VR-2647, and a dengue-4 (DEN-4) virus having the sequence of DEN-4 strain 341750 PDK-6 having the ATCC accession number PTA-4811, and a physiologically acceptable vehicle.

Claim 28. (New) An immunogenic composition comprising two or more attenuated dengue viruses selected from the group consisting of a dengue-1 (DEN-1) virus having the sequence of DEN-1 strain 45AZ5 PDK-20 having the ATCC accession number VR-2648, a dengue-2 (DEN-2) virus having the sequence of DEN-2 strain S16803 PDK-50 having the ATCC accession number VR-2653, a dengue-3 (DEN-3) virus having the sequence of DEN-3 strain CH53489 PDK-20 having the ATCC accession number VR-2647, and a dengue-4 (DEN-4) virus having the sequence of DEN-4 strain 341750 PDK-20 having the ATCC accession number VR-2652, and a physiologically acceptable vehicle.

Claim 29. (New) The immunogenic composition according to claim 28 which further comprises an adjuvant to enhance the immune response.

Claim 30. (New) The immunogenic composition of claim 28, formulated in a dose of 10^2 to 10^6 PFU of attenuated virus.

Claim 31. (New) A multivalent live attenuated dengue virus vaccine comprising any combination of dengue virus serotypes selected from the group consisting of: a dengue-1 (DEN-1) virus having the sequence of DEN-1 strain 45AZ5 PDK-20 having the ATCC accession number VR-2648, a dengue-2 (DEN-2) virus having the sequence of DEN-2 strain S 16803 PDK-50 having the ATCC accession number VR-2653, a dengue-3 (DEN-3) virus having the sequence of DEN-3 strain CH53489 PDK-20 having the ATCC accession number VR-2647, and a dengue-4 (DEN-4) virus having the sequence of DEN-4 strain 341750 PDK-20 having the ATCC accession number VR-2652.

Claim 32. (New) The dengue virus vaccine of claim 31 wherein said dengue virus is produced in vertebrate cells.

Claim 33. (New) The dengue virus vaccine of claim 32 wherein said cells are Vero cells.

Claim 34. (New) The dengue virus vaccine of claim 31 wherein said dengue-1 virus is in the amount of 10^2 to 10^7 pfu/ml, said dengue-2 virus is in the amount of 10^2 to 10^7 pfu, said dengue-3 virus is in the amount of 10^2 to 10^7 pfu, and said dengue-4 virus is in the amount of 10^2 to 10^7 pfu/ml.

Claim 35. (New) The dengue virus vaccine of claim 34 wherein said vaccine is administered subcutaneously.

Claim 36. (New) An immunogenic composition comprising two or more attenuated dengue virus chosen from the group consisting of a dengue-1 (DEN-1) virus having the sequence of DEN-1 strain 45AZ5 PDK-27 having the ATCC accession number PTA4810, a dengue-2 (DEN-2) virus having the sequence of DEN-2 strain S16803 PDK-S0 having the ATCC accession number VR-2653, a dengue-3 (DEN-3)

virus having the sequence of DEN-3 strain CH153489 PDK-20 having the ATCC accession number VR-2647, and a dengue-4 (DEN4) virus having the sequence of DEN-4 strain 341750 PDK6 having the ATCC accession number PTA4811, and a physiologically acceptable vehicle.

Claim 37. (New) A multivalent live attenuated dengue virus vaccine comprising any combination of dengue virus serotypes selected from the group consisting of: a dengue-1 (DEN-1) virus having the sequence of DEN-1 strain 45AZ5 PDK-27 having the ATCC accession number PTA4810, a dengue-2 (DEN-2) virus having the sequence of DEN-2 strain S16803 PDK-50 having the ATCC accession number VR-2653, a dengue-3 (DEN-3) virus having the sequence of DEN-3 strain CH53489 PDK-20 having the ATCC accession number VR-2647, and a dengue-4 (DEN-4) virus having the sequence of DEN-4 strain 341750 PDK-6 having the ATCC accession number PTA-4811.

Claim 38. (New) The vaccine of claim 37 wherein at least one virus is DEN-1 strain 45AZ5 PDK-27 having the ATCC accession number PTA-4810.

Claim 39. (New) The vaccine of claim 37 wherein at least one virus is DEN-4 strain 341750 PDK-6 having the ATCC accession number PTA-4811.